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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/730,161	12/08/2003	Marco Serra	MDE-002C1	2317
42532	7590	08/10/2006	EXAMINER	
PROSKAUER ROSE LLP ONE INTERNATIONAL PLACE 14TH FL BOSTON, MA 02110			VO, HAI	
			ART UNIT	PAPER NUMBER
			1771	
DATE MAILED: 08/10/2006				

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/730,161

Applicant(s)

SERRA ET AL.

Examiner

Hai Vo

Art Unit

1771

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 07 June 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 58-75 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 58-75 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 0607.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

1. All of the art rejections are considered moot in view of the claim cancellation.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 58-64, and 67-75 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Mumick et al (US 5,969,052). Mumick discloses a diaper comprising a fibrous substrate formed from a multilayered structure (column 8, lines 20-23). The binder contains gel particles comprising poly(N-isopropylacrylamide) (NiPAm) and N-tert-butylacrylamide (column 4, lines 20-23). The substrate comprises gel particles in an amount of 6% to 20% by weight of total dry weight of the substrate. It appears that the diaper of Mumick meets all the structural limitations as set forth in the claims, it is not seen that the binder of Mumick would have performed differently than the gel particles of the present invention in terms of regulating a flow of water to maintain a desired

temperature of an object and decreasing heat loss. Mumick does not specifically disclose the material is used in a wet suit. However, it has been held that a recitation with respect to the manner in which a claimed material is intended to be employed does not differentiate the claimed material from a prior art diaper satisfying the claimed structural limitations. *Ex parte Masham*, 2 USPQ2d 1647 (1987). Accordingly, Mumick anticipates or strongly suggests the claimed subject matter.

5. Claim 65 is rejected under 35 U.S.C. 103(a) as being unpatentable over Mumick et al (US 5,969,052) as applied to claim 58 above, and further in view of Young et al (US 5,147,345). Mumick discloses the binder incorporated into the absorbent core of the diaper. Mumick does not specifically disclose the absorbent core made from a foam material. Young, however, discloses a diaper comprising an absorbent core made from a foam material. Hence, it would have been obvious to one having ordinary skill in the art at the time the invention was made to substitute the foam material for the fibrous substrate of the Mumick invention since the fibrous material and the foam material have been shown in the art to be recognized equivalent absorbent materials for diapers.
6. Claim 66 is rejected under 35 U.S.C. 103(a) as being unpatentable over Mumick et al (US 5,969,052) as applied to claim 58 above, and further in view of Jensen (US 5,571,080). Mumick discloses a surgical dressing comprising a fibrous substrate, a fluid impervious backing and a binder being incorporated into the fibrous substrate (column 9, lines 55-65). Mumick does not specifically disclose the fluid impervious

backing made from a neoprene. Jensen, however, discloses a surgical dressing comprising a fibrous substrate, a fluid impervious backing wherein the backing is made from neoprene rubber (claim 8). Hence, it would have been obvious to one having ordinary skill in the art at the time the invention was made to use neoprene rubber as the backing layer of the Mumick surgical dressing because such is intended use of the material and Jensen provides necessary details to practice the invention of Mumick.

7. Claims 58-69, and 73-75 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bashan (US 3,900,030) in view of Zadini et al (US 5,609,586). Bashan discloses a tampon comprising an open cell foam matrix containing hydrogel particles in an amount from 15 to 30% by weight (abstract). The tampon is made from hydrophilic open celled polyurethane foam. Bashan does not specifically disclose the gel particles that expand when a temperature of a fluid in contact with the gel particles is below a phase transition temperature of the gel particles and that contract when the temperature of the fluid in contact with the gel particles is above the phase transition temperature of the gel particles. However, it appears that Bashan uses the open cell foam containing hydrogel particles as Applicants, therefore, it is not seen that the tampon would have performed differently than the material of the present invention in term of expanding and contracting in response to the temperature of the fluid to which the gel particles are exposed. Bashan does not specifically disclose the device is used in a wet suit. However, it has been held that a recitation with respect to the manner in which a claimed material is intended to be

employed does not differentiate the claimed material from a prior art tampon satisfying the claimed structural limitations. *Ex parte Masham*, 2 USPQ2d 1647 (1987). Bashan does not specifically disclose the catamenial tampon comprising a neoprene layer. Zadini, however, discloses a catamenial device comprising a layer 103, a tampon 104 and an expandable member 105 made from neoprene.

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to use the catamenial tampon having an expandable neoprene layer motivated by the desire to provide sealable closure of vaginal canal.

8. Claims 70-72 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bashan (US 3,900,030) in view of Zadini et al (US 5,609,586) as applied to claim 58 above, in view of Mumick et al (US 5,969,052). Bashan does not disclose the hydrogel particles made from N-tert-butylacrylamide and NiPAm. Mumick, however, the use of N-tert-butylacrylamide and NiPAm monomers in the sanitary napkins.

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to use the hydrogel particles made from N-tert-butylacrylamide and NiPAm monomers in the foam layer of Bashan because these gel particles exhibit adequate tensile strength and retain their structural integrity when in contact with the body fluid, yet are readily dispersible in water so that the absorbent product may be flushed away after use.

9. Claims 58-65, 67-69, 71, and 73-75 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over EP 0 301 753. EP'753 discloses a wound dressing comprising a backing, and an open

cell foam matrix containing hydrogel particles in an amount from 20 to 40% by weight (abstract, column 5, lines 40-45, figures 3 and 4). EP'753 does not specifically disclose the gel particles that expand when a temperature of a fluid in contact with the gel particles is below a phase transition temperature of the gel particles and that contract when the temperature of the fluid in contact with the gel particles is above the phase transition temperature of the gel particles. However, it appears that EP'753 uses the open cell foam containing hydrogel particles as Applicants, therefore, it is not seen that the tampon would have performed differently than the material of the present invention in term of expanding and contracting in response to the temperature of the fluid to which the gel particles are exposed. EP'753 does not specifically disclose the device is used in a wet suit. It has been held that a recitation with respect to the manner in which a claimed material is intended to be employed does not differentiate the claimed material from a prior art tampon satisfying the claimed structural limitations. *Ex parte Masham*, 2 USPQ2d 1647 (1987). Accordingly, it is the examiner's position that EP'753 anticipates or strongly suggests the claimed subject matter.

10. Claim 66 is rejected under 35 U.S.C. 103(a) as being unpatentable over EP 0 301

753 as applied to claim 58 above, and further in view of Jensen (US 5,571,080).

EP'753 discloses a surgical dressing comprising a foam substrate, a fluid impervious backing and a binder being incorporated into the fibrous substrate (abstract, figures 3 and 4). EP'753 does not specifically disclose the fluid impervious backing made from neoprene rubber. Jensen, however, discloses a surgical dressing comprising a

fibrous substrate, a fluid impervious backing wherein the backing is made from neoprene rubber (claim 8). Hence, it would have been obvious to one having ordinary skill in the art at the time the invention was made to use neoprene rubber as the backing layer of the Mumick surgical dressing because such is intended use of the material and Jensen provides necessary details to practice the invention of EP'753.

11. Claims 70 and 72 are rejected under 35 U.S.C. 103(a) as being unpatentable over EP 0 301 753 as applied to claim 58 above, and further in view of Mumick et al (US 5,969,052). EP'753 does not disclose the hydrogel particles made from N-tert-butylacrylamide and NiPAm. Mumick, however, the use of N-tert-butylacrylamide and NiPAm monomers in the sanitary napkins. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to use the hydrogel particles made from N-tert-butylacrylamide and NiPAm monomers in the foam layer of EP'753 because these gel particles exhibit adequate tensile strength and retain their structural integrity when in contact with the body fluid, yet are readily dispersible in water so that the absorbent product may be flushed away after use.

Conclusion

12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hai Vo whose telephone number is (571) 272-1485. The examiner can normally be reached on Monday through Thursday, from 9:00 to 6:00.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Terrel Morris can be reached on (571) 272-1478. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Haivo

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HAIVO
PRIMARY EXAMINER